

Corrosion Report



Equipment Location ID 0955-035-014
Equip. Location Descrip. C-1100 C-1160 INSTRUMENT PURGE

Remaining Life (Years) ∞
Retirement Date ∞
Last Inspection Date 05/03/2010
Next Inspection Date 06/08/2015
Current Corrosion Rate 0.00

DP ID	MEAS METH	DP STAT	DP SZ	DT TYPE	BASE	MEAS 5	MEAS 4	MEAS 3	NEAR	LAST	MIN VALUE	CCR	REM LIFE
008.R	RT	A	0.75	RED	0.180 09/04					0.180 05/10	0.100	0.00	∞
011.R	RT	A	0.75	ELL	0.130 09/04					0.150 06/05	0.100	0.00	∞



History Brief

For Location ID: 0955-035-014 in Unit: 0955

Report Date: August 15, 2012

Data Source: Meridium

Brief Data:

Date Not Available:	1/15/2007	Date Available:	01/15/2007
History Brief Date:	02/27/2007	History Brief ID:	VI-0702169841
Event Type:	Inspection	In- Service Date:	01/15/2007
Equipment ID:	0955-035-014	Critical:	M
Asset ID:	1002009978	Reference Material:	
Work Order Nbr:		Incident Event ID:	
History Type:	FXD	Inspection Date:	02/27/2007
Asset Type:	221	Inspection Type:	EVI
Cost Center:	K.DCRR100281		
Unit:	0955 - 4 CRUDE UNIT PLT 11		
Headline:	Fire Damage Assessment/No Damage Detected		

Reliability Analysis:

Event Type:	Inspection	Worked Performed By:	Chevron Maintenance
Cause Category:	Information	Program Status:	
Effect Category:	Information	Maintainable Item:	Pipe Wall
Repair Location:		Permanent Repair WO:	
Temporary Repair:	No	Name:	DANM
Save:		Inspected By:	DANM

Findings:

PCA ID:
Inspectable:
Sub Item:
Part:
Discussion:

Condition:
Action:
Location:
Damage Mechanism:
PCA Work Order No :

Reliability Comments:

On 1/15/07, the # 4 Crude Unit was in the process of plant clean-up for the planned 1Qtr/07 major T/A. Well after feed was removed and approximately 6 hours into the cleanup, the wash oil piping failed where it ties into the P-1165A discharge spool. The leak immediately flashed and impinged on the East/West overhead pipeway between pipe supports 11J-18.5 and 11J-20.5. The fire also impinged on the tubes of the E-1100 A cells causing structural damage, tube failures and a secondary fire. Once the fire was controlled, the fire continued to burn for approximately 8 hours.

A fire damage assessment team determined the fire zones in accordance the API and MTI guidelines. In general, fire zones 5/6 (800 degF plus) were discovered in a 25 foot circumference surrounding the P-1165A. Fire Zone #4 (400-800 degF) extended approximately 10' beyond zone 5/6. Fire Zone #3 (150-400 degF) extended approximately 20' beyond Fire Zone #4. Fire Zone 2 was the area affected by firewater and pump deluge systems. Fire Zone #1 indicated no damage. Structure, electrical, instrumentation and machinery damage were covered by the representatives from the specific disciplines.

This line was located in fire zone 2-3. Inspection consisted of the following:

1. Visual inspection of the line in the overhead pipeway from PS11J-17 to C-1160. No damage was detected. Hardness testing was not required. No repairs were required.

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The inspection was completed by Myron Makowsky of IESCO.



History Brief

For Location ID: 0955-035-014 in Unit: 0955

Report Date: August 15, 2012

Data Source: Meridium

Brief Data:

Date Not Available:	7/6/2006	Date Available:	07/06/2006
History Brief Date:	07/13/2006	History Brief ID:	VI-0607155995
Event Type:	Repair	In- Service Date:	07/06/2006
Equipment ID:	0955-035-014	Critical:	M
Asset ID:	1002009978	Reference Material:	
Work Order Nbr:		Incident Event ID:	
History Type:	FXD	Inspection Date:	07/06/2006
Asset Type:	221	Inspection Type:	
Cost Center:	K.DCRR100281		
Unit:	0955 - 4 CRUDE UNIT PLT 11		
Headline:	C-1100/-1160 FG Purge Severe CUI, Reco To Rpr/Rplc		

Reliability Analysis:

Event Type:	Repair	Worked Performed By:	Chevron Reliability
Cause Category:	Maintenance	Program Status:	
Effect Category:	Corrosion	Maintainable Item:	Pipe Wall
Repair Location:		Permanent Repair WO:	
Temporary Repair:		Name:	JMJG
Save:		Inspected By:	JMJG

Findings:

PCA ID:

Inspectable:

Sub Item:

Part:

Discussion:

Condition:

Action:

Location:

Damage Mechanism:

PCA Work Order No :

Reliability Comments:

An unused fuel gas purge line to the level instruments to C-1100/-1160 was found to have an area of orphaned insulation just to the north of C-1100 (see reference documents), just above and between the P-1105's and P-1128's. RT of the affected areas revealed several corrosion cells from 0.19" to 0.12" RWT; a heavily corroded area near the 0.12" spot appears to be much lower when remeasured on the radiograph (down to a 0.055" to 0.06"). The line was traced back to the header and then to the boundary; while the line itself is blocked in to the level instruments at the columns the header itself is in service (services the K-1100s / -1171s); there is no block valve on the branch line to the level instruments noted above. A recommendation (REC-54117) was written to repair or replace the corroded areas.